38th INTERNATIONAL CONFERENCE
ON HIGH ENERGY PHYSICS
AUGUST 3 - 10, 2016
CHICAGO

Contribution ID: **349** Type: **Poster**

Detectors for Superboosted Jet Substructure at Future Circular Colliders

Saturday, 6 August 2016 18:00 (2 hours)

We study detector performance of jet substructure variables for extremely boosted objects at very high energy proton colliders. We study hadronically-decaying W bosons with transverse momentum in the multi-TeV range. Calorimeter detectors are benchmarked in various configurations in order to understand the impact of granularity and resolution on boosted boson discrimination.

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Session Classification: Poster Session

Track Classification: Detector: R&D and Performance